7	Application No.	Applicant(s)	
Notice of Allowability	09/849,503	PAU ET AL.	
	Examiner	Art Unit	
	Gims S Philippe	2613	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this or other appropriate communications. This application is subjection	s application. If not included ation will be mailed in due course. <b>THI</b> S	S ative
1. This communication is responsive to <u>amendment filed on</u>	<u>September 7, 2004</u> .		
2. The allowed claim(s) is/are <u>1-7,9-24 and 26-38</u> .			
3. $\boxtimes$ The drawings filed on <u>04 May 2001</u> are accepted by the E	xaminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una a)  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Horald Copies of the priority documents have</li> </ol> </li> <li>Copies of the certified copies of the priority documents have a long the l</li></ul>	e been received. e been received in Application N	D	е
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") must</li> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner' Paper No./Mail Date</li> </ol>	son's Patent Drawing Review(P		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summ Paper No./Mail 08), 7. Examiner's Ame	Date	

Allowable Subject Matter

After a further search and a thorough examination of the present application and 1.

in light of the Applicant's arguments and in light of the prior art made of record, claims 1-

7, 9-24, and 26-38 are found to be in condition for allowance.

Reasons for Allowance

2. The following is an Examiner's statement of reasons for the indication of

allowable subject matter:

The claims are allowable over the prior art of record since the cited reference taken

individually or in combination fails to particularly disclose a motion estimation process

comprising a first identification phase in which, starting from a current motion vector, a

best motion vector predictor is identified within a set of candidates, and a second phase

of refining the best motion vector predictor thus identified, the set of candidates formed

from vectors belonging to macroblocks association with the current vector within the

current frame and the preceding frame, the refining phase comprising the operation of

forming a grid of n points centered on the central position to which a best mode vector

points the distance of the points of the grid from the center being defined as a linear

function of a matching error defined in the first identification phase.

It is noted that the closest prior art of record, Lam (US Patent no. 5745183),

suggests a similar motion estimation process, however, Lam fails to particularly teach or

suggest "a first identification phase in which, starting from a current motion vector, a best motion vector predictor is identified within a set of candidates, and a second phase of refining the best motion vector predictor thus identified, the set of candidates formed from vectors belonging to macroblocks association with the current vector within the current frame and the preceding frame, the refining phase comprising the operation of forming a grid of n points centered on the central position to which a best mode vector points the distance of the points of the grid from the center being defined as a linear function of a matching error defined in the first identification phase" as specified in the claims.

## Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S Philippe whose telephone number is (703) 305-1107. The examiner can normally be reached on M-F (9:30-7:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S Kelley can be reached on (703) 305-4780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gims S Philippe Primary Examiner Art Unit 2613

GSP

December 22, 2004